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- 32. (Amended) The method of any one of claims 27 or 29, wherein binding of the test compound to the polypeptide is detected by the use of an assay for a hVR-2 activity.
- 35. (Amended) The method of any one of claims 27 or 29, wherein said cell expressing said polypeptide is a neuronal cell.
- 36. (Amended) The method of any one of claims 27 or 29, wherein said compound modulates the activity of said polypeptide.
- 43. (Amended) The method of any one of claims 37, 39, 46 or 48, wherein binding of said test compound to said polypeptide is detected by the use of a direct binding assay.
- 44. (Amended) The method of any one of claims 37, 39, 46 or 48, wherein binding of said test compound to said polypeptide is detected by the use of a competition binding assay.
- 45. (Amended) The method of any one of claims 37, 39, 46 or 48, wherein said test compound modulates the activity of said polypeptide.
- 46. (Amended) A method for identifying a compound which binds to a polypeptide that is at least 95% identical to the amino acid sequence of SEQ ID NO:5 and is capable of modulating membrane excitability in a cell, the method comprising:
 - a) contacting a cell expressing the polypeptide with a test compound under conditions suitable for binding; and
 - b) determining whether the test compound binds to the polypeptide, thereby identifying a compound which binds to a polypeptide comprising the amino acid sequence of SEQ ID NO:5.
- 48. (Amended) A method for identifying a compound which binds to a polypeptide that is at least 95% identical to the amino acid sequence of SEQ ID NO:5 and is capable of modulating membrane excitability in a cell, the method comprising:
 - a) contacting the polypeptide with a test compound under conditions suitable for binding; and